



**GCSE
MATHEMATICS
8300/2F**

Foundation Tier Paper 2 Calculator

Mark scheme

November 2024

Version: 1.0 Final



2 4 B G 8 3 0 0 / 2 F / M S

Mark schemes are prepared by the Lead Assessment Writer and considered, together with the relevant questions, by a panel of subject teachers. This mark scheme includes any amendments made at the standardisation events which all associates participate in and is the scheme which was used by them in this examination. The standardisation process ensures that the mark scheme covers the students' responses to questions and that every associate understands and applies it in the same correct way. As preparation for standardisation each associate analyses a number of students' scripts. Alternative answers not already covered by the mark scheme are discussed and legislated for. If, after the standardisation process, associates encounter unusual answers which have not been raised they are required to refer these to the Lead Examiner.

It must be stressed that a mark scheme is a working document, in many cases further developed and expanded on the basis of students' reactions to a particular paper. Assumptions about future mark schemes on the basis of one year's document should be avoided; whilst the guiding principles of assessment remain constant, details will change, depending on the content of a particular examination paper.

No student should be disadvantaged on the basis of their gender identity and/or how they refer to the gender identity of others in their exam responses.

A consistent use of 'they/them' as a singular and pronouns beyond 'she/her' or 'he/him' will be credited in exam responses in line with existing mark scheme criteria.

Further copies of this mark scheme are available from [aqa.org.uk](https://www.aqa.org.uk)

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Glossary for Mark Schemes

GCSE examinations are marked in such a way as to award positive achievement wherever possible. Thus, for GCSE Mathematics papers, marks are awarded under various categories.

If a student uses a method which is not explicitly covered by the mark scheme the same principles of marking should be applied. Credit should be given to any valid methods. Examiners should seek advice from their senior examiner if in any doubt.

M	Method marks are awarded for a correct method which could lead to a correct answer.
A	Accuracy marks are awarded when following on from a correct method. It is not necessary to always see the method. This can be implied.
B	Marks awarded independent of method.
ft	Follow through marks. Marks awarded for correct working following a mistake in an earlier step.
SC	Special case. Marks awarded for a common misinterpretation which has some mathematical worth.
M dep	A method mark dependent on a previous method mark being awarded.
B dep	A mark that can only be awarded if a previous independent mark has been awarded.
oe	Or equivalent. Accept answers that are equivalent. eg accept 0.5 as well as $\frac{1}{2}$
[a, b]	Accept values between a and b inclusive.
[a, b)	Accept values $a \leqslant \text{value} < b$
3.14 ...	Accept answers which begin 3.14 eg 3.14, 3.142, 3.1416
Use of brackets	It is not necessary to see the bracketed work to award the marks.

Examiners should consistently apply the following principles.

Diagrams

Diagrams that have working on them should be treated like normal responses. If a diagram has been written on but the correct response is within the answer space, the work within the answer space should be marked. Working on diagrams that contradicts work within the answer space is not to be considered as choice but as working, and is not, therefore, penalised.

Responses which appear to come from incorrect methods

Whenever there is doubt as to whether a student has used an incorrect method to obtain an answer, as a general principle, the benefit of doubt must be given to the student. In cases where there is no doubt that the answer has come from incorrect working then the student should be penalised.

Questions which ask students to show working

Instructions on marking will be given but usually marks are not awarded to students who show no working.

Questions which do not ask students to show working

As a general principle, a correct response is awarded full marks.

Misread or miscopy

Students often copy values from a question incorrectly. If the examiner thinks that the student has made a genuine misread, then only the accuracy marks (A or B marks), up to a maximum of 2 marks are penalised. The method marks can still be awarded.

Further work

Once the correct answer has been seen, further working may be ignored unless it goes on to contradict the correct answer.

Choice

When a choice of answers and/or methods is given, mark each attempt. If both methods are valid then M marks can be awarded but any incorrect answer or method would result in marks being lost.

Work not replaced

Erased or crossed out work that is still legible should be marked.

Work replaced

Erased or crossed out work that has been replaced is not awarded marks.

Premature approximation

Rounding off too early can lead to inaccuracy in the final answer. This should be penalised by 1 mark unless instructed otherwise.

Continental notation

Accept a comma used instead of a decimal point (for example, in measurements or currency), provided that it is clear to the examiner that the student intended it to be a decimal point.

Q	Answer	Mark	Comments
1(a)	16	B1	
	Additional Guidance		
	Ignore further terms		

Q	Answer	Mark	Comments
1(b)	-1	B1	
	Additional Guidance		
	Ignore further terms		

Q	Answer	Mark	Comments
1(c)	$\times 2$	B1	oe eg double, multiply by 2, add to itself
	Additional Guidance		
	Times 2		B1
	2n		B0
	Ignore any attempt to continue the sequence		

Q	Answer	Mark	Comments
2(a)	13.65	B1	
	Additional Guidance		
	13.65p		B1

Q	Answer	Mark	Comments
2(b)	Alternative method 1		
	$2 + 3.8(0) + 1.75$ or 7.55	M1	oe
	7.55 and No	A1	
	Alternative method 2		
	$7.5(0) - 2 - 3.8(0)$ or $1.7(0)$	M1	oe
	1.7(0) and No	A1	
	Alternative method 3		
	$7.5(0) - 2 - 3.8(0) - 1.75$ or -0.05	M1	oe
	(-0.05) and No	A1	
	Additional Guidance		
No may be indicated by selecting the box or a statement in the working lines			
May work in pence			
In alts 1 and 2 ignore any attempt to evaluate differences once the correct value is seen			
Eg No ticked and 7.55 seen, followed by he is 0.5 short			M1A1

Q	Answer	Mark	Comments
3(a)	6	B1	
	Additional Guidance		
	Embedded answer without 6 being selected eg $5 \times 6 = 30$		B0

Q	Answer	Mark	Comments
3(b)	12	B1	
	Additional Guidance		
	Embedded answer without 12 being selected eg $-2 + 12 = 10$		B0

Q	Answer	Mark	Comments
	5	B2	B1 correct partial simplification eg $\frac{20}{4}$ or $\frac{5}{1}$ or $\frac{10w}{2w}$ or $\frac{5w}{w}$ SC1 $5w$
Additional Guidance			
Correct partial simplification followed by incorrect further work eg $\frac{10w}{2w}$, Answer $8w$			B1
Correct answer followed by further work			B1

Q	Answer	Mark	Comments
	(2, -2)	B1	
Additional Guidance			
Condone x and y written above the coordinates			
Do not condone $(2x, -2y)$			

Q	Answer	Mark	Comments
	(2, 1)	B1	
Additional Guidance			
Condone x and y written above the coordinates			
Do not condone $(2x, 1y)$			

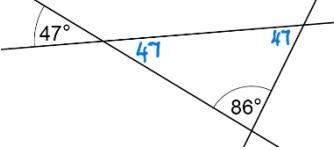
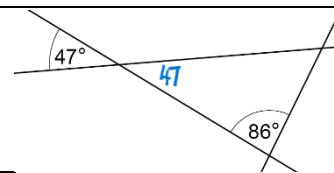
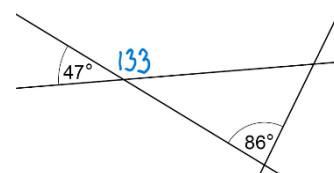
Q	Answer	Mark	Comments
	Point plotted at (6, 1)	B1	allow missing label
Additional Guidance			
Ignore point marked or working for part (b)			
Mark intention			
The correctly drawn rhombus implies the point has been plotted correctly			

Q	Answer	Mark	Comments
5(a)	3.8	B1	

Q	Answer	Mark	Comments
5(b)	$(14.2 + 15.1 + 16.5 + 16.7 + 18) \div 5$ or $80.5 \div 5$	M1	oe
	16.1	A1	SC1 66.1
Additional Guidance			
Condone missing brackets in working for M1			
Condone 16 after 16.1 seen			

Q	Answer	Mark	Comments
6(a)	35	B1	

Q	Answer	Mark	Comments
6(b)	$360 - (35 + 160)$	M1	oe
	165	A1	

Q	Answer	Mark	Comments	
6(c)	<p>Opposite angle to $47 = 47$ and 3rd angle = 47 and isosceles</p>	B3	<p>B2 opposite angle to $47 = 47$ and 3rd angle = $180 - 47 - 86$ or 47 with type of triangle blank or incorrect</p> <p>B1 opposite angle to $47 = 47$</p>	
Additional Guidance				
Angles may be seen in the correct places on the diagram for B3, B2 or B1				
Ignore incorrect spelling of isosceles so long as intention is clear				
Ignore any reasons stated				
$180 - 47 - 86$ does not need to be evaluated correctly for B2				
3rd angle = $(180 - 86)/2 = 47$ does not gain credit unless opposite angle = 47 is also seen				
Examples of responses:				
			B3	
Answer Isosceles			B3	
Angles in the triangle are both 47 , answer isosceles			B3	
Opposite angles are 47 , $47 + 47 + 86 = 180$, isosceles			B3	
 <p>and $180 - 47 - 86 = 47$ (implies 3rd angle as 1st angle stated in diagram)</p> <p>No triangle type stated</p>			B2	
 <p>and $180 - 47 - 86 = 47$</p> <p>No reference to any angles inside the triangle</p>			B0	
47 + 86 = 133, $180 - 133 = 47$, so isosceles triangle			B0	

Q	Answer	Mark	Comments
Alternative method 1			
<p>8 × 5 or 40 or 3 × 16 or 48 or 88</p>		M1	<p>oe may be seen by the table</p>
	$\frac{8 \times 5}{4} \text{ or } 10 \text{ (days)}$ <p>or</p> $\frac{3 \times 16}{4} \text{ or } 12 \text{ (days)}$ <p>or</p> $\frac{8 \times 5 + 3 \times 16}{4} \text{ or } \frac{88}{4}$	M1dep	<p>oe eg $40 \div 4$ or $10 + 12$ may be embedded eg $\frac{40 + 48}{4}$</p>
7		A1	SC2 3 weeks and 1 day without 22 seen
Alternative method 2			
<p>$8 \div 4$ or 2 or $3 \div 4$ or 0.75</p>		M1	<p>oe may be seen by the table</p>
	$8 \div 4 \times 5 \text{ or } 10 \text{ (days)}$ <p>or</p> $3 \div 4 \times 16 \text{ or } 12 \text{ (days)}$	M1dep	<p>oe eg $10 + 12$</p>
22		A1	SC2 3 weeks and 1 day without 22 seen
Additional Guidance			
Up to M2 may be awarded for correct work with no answer or incorrect answer, even if this is seen amongst multiple attempts			
Ignore conversion to weeks after 22 days seen			

Q	Answer	Mark	Comments
8	Alternative method 1		
	6 × 8 or 48 or 4.5 × 8 or 36 or 6 + 4.5 or 10.5	M1	oe may be seen on the pictogram implied by 84
	100 – (their 36 + their 48) or 100 – 84 or 100 – their 10.5 × 8 or 16	M1dep	oe one of their 36 and their 48 must be from a correct method may be seen on the pictogram
	2 circles drawn	A1	
	Alternative method 2		
	6 + 4.5 or 10.5	M1	may be seen on the pictogram
	100 ÷ 8 or 12.5	M1	
	2 circles drawn	A1	
	Additional Guidance		
	Circles do not need to be aligned		
	Mark intention for size and shape of symbols		
	Build up method may be seen eg $10 \times 8 = 80 + 8 + 8 = 96 + 4 = 100$		M2
	2 circles drawn with no working		M2A1

Q	Answer	Mark	Comments
	HSO HSM HOM SOM	B2	with no errors may be given as words any order B1 for any one correct option stated
Additional Guidance			
Ignore repeated answers eg HSM and SHM			
Repeated toppings is an error eg HHS			
2 or 4 toppings is an error eg SM or HSOM			

Q	Answer	Mark	Comments
	37.5 or $37\frac{1}{2}$	B1	accept $\frac{75}{2}$
Additional Guidance			
37			B0
37.5 followed by 37 or 38 on the answer line			B0
38			B0
37.50			B1

Q	Answer	Mark	Comments
10(b)	0.47	B2	B1 0.46 or 0.469 or 0.4688 or 0.46875 or 0.47 with one or more trailing 0s B1 their 3dp or more value correctly rounded to 2dp

Q	Answer	Mark	Comments
	True May be true True	B3	B1 for each correct box
Additional Guidance			
11	More than one box ticked in a row is choice for that row		
	A tick and a cross (or two crosses) in a row, mark the tick		
	Any unambiguous indication eg Cross in all 3 correct boxes with all other boxes blank		
			B3

Q	Answer	Mark	Comments
	$(-4)^2 + 7 \times -4$ or $-4(-4 + 7)$ or 16 or -28	M1	oe eg $(-4)^2 + 7(-4)$
	-12	A1	SC1 -44
Additional Guidance			
	SC is for $-4^2 + 7 \times -4 = -16 - 28 = -44$		
	Embedded 16 or -28 seen eg 16 + $7x$ without correct answer		
12(a)	Values may be implied eg1 $(-4)^2 + 7 \times 4 = 44$ 16 is implied eg2 only answer 44		
	Further correct work eg $16 - 28 = -12$, Answer $3x$		
	Further incorrect work eg $16 - 28 = -12$, Answer $-12x$		
	$+ -28$ is the same as -28		
	Only $-4^2 + 7 \times -4$		
	$-4^2 + 7 \times -4 = -16 + 28 = 12$		
	16x does not imply 16		

Q	Answer	Mark	Comments
12(b)	$y + 1$ or $1 + y$	B1	

Q	Answer	Mark	Comments
12(c)	$4a + 8$ or $8 + 4a$ or $5a$	M1	
	$5a + 8$ or $8 + 5a$	A1	
Additional Guidance			
Further incorrect work or simplification eg $5a + 8$, Answer 13a			M1A0

Q	Answer	Mark	Comments
13	1 hour 58 minutes 32 seconds	B2	B1 2 of the 3 values correct or correct time not in the form requested
	Additional Guidance		
	1 hour 58 minutes 72 seconds	B1	
	1 hour 59 minutes 32 seconds	B1	
	(blank or 0) hour 118 minutes 32 seconds	B1	
	(blank or 0) hour (blank or 0) minutes 7112 seconds	B1	
	1 hour 118 minutes 7112 seconds	B0	
	1 hour 98 minutes 72 seconds	B0	

Q	Answer	Mark	Comments
14	Alternative method 1		
	360 – 90 – 78 – 48 or 144	M1	oe may be seen on the diagram
	120 × 360 ÷ 90 or 480	M1	oe eg 120 × 4
	$\frac{\text{their 144}}{360} \times \text{their 480}$	M1dep	oe dep on M2
	192	A1	
Alternative method 2	360 – 90 – 78 – 48 or 144	M1	oe may be seen on the diagram
	120 ÷ 90 or $\frac{4}{3}$ or	M1	oe
	90 ÷ 120 or $\frac{3}{4}$		
	their 144 × $\frac{120}{90}$	M1dep	oe eg their 144 ÷ $\frac{90}{120}$ or 16 × 12 dep on M2
	192	A1	

Mark scheme and Additional Guidance continue on the next page

14 cont	Alternative method 3		
	360 – 90 – 78 – 48 or 144	M1	oe may be seen on the diagram
	their $144 \div 90$ or $\frac{8}{5}$ or 90 \div their 144 or $\frac{5}{8}$	M1dep	oe
	$120 \times \frac{144}{90}$	M1dep	oe eg $120 \div \frac{90}{144}$
	192	A1	
	Additional Guidance		
	M1 may be awarded for correct work with no answer or incorrect answer, even if this is seen amongst multiple attempts		
	Allow $\times 1.3(3\dots)$ if seen for method for four thirds		

Q	Answer	Mark	Comments
15(a)	240 ÷ 10 or 120 ÷ 5 or 24 or 240 × 6 or 120 × 12 or 1440	M1	
	24 litres per minute or 1440 litres per hour	A1	oe eg 24 l/min or 0.4 litres per second
Additional Guidance			
M1 may be awarded for correct work with no answer or incorrect answer, even if this is seen amongst multiple attempts			
Units may be abbreviated but must be the correct units for their correct rate eg allow 0.4 l/s or 0.4 lps for 0.4 litres per second			M1A1
Do not ignore further incorrect attempts to change units eg 24 litres per minute and 0.4 litres/hour on the answer line			M1A0

Q	Answer	Mark	Comments
15(b)	Horizontal line from (10, 240) to (30, 240)	B1	$\pm \frac{1}{2}$ small square
	Straight line from their (30, 240) to (12 + their 30, 0)	B1ft	$\pm \frac{1}{2}$ small square for (12 + their 30, 0)
Additional Guidance			
Mark intention			
No horizontal line and straight line from (10, 240) to (22, 0)			B0B1ft

Q	Answer	Mark	Comments
	4 squares shaded so that the grid has exactly two lines of symmetry	B2	B1 4 squares shaded so that the grid has four lines of symmetry or even number of squares shaded so that the grid has exactly two lines of symmetry
Additional Guidance			
16	 or or or	B2	
	 or or or		
16	 or	B1	
	 or or		B1
		B0	
Mark intention			
Part squares shaded			B0

Q	Answer	Mark	Comments
17	Alternative method 1		
	7 × 4000 ÷ 100 or 280	M2	oe M1 7×4000 or 28000 or $7 \div 100$ or 0.07 or $4000 \div 100$ or 40
	280 and No	A1	oe eg 20 less and No
	Alternative method 2		
	300 × 100 ÷ 4000 or 7.5	M2	oe M1 300×100 or 30000 or $300 \div 4000$ or 0.075 or $100 \div 4000$ or 0.025
	7.5 and No	A1	
	Alternative method 3		
	300 × 100 ÷ 7 or 4285(.7...) or 4286	M2	oe M1 300×100 or 30000 or $300 \div 7$ or [42.8, 42.9] or $100 \div 7$ or [14.2, 14.3]
	[4200, 4300] and No with M2 seen	A1	

Mark scheme and Additional Guidance continue on the next page

17 cont	Alternative method 4				
	7 × 4000 or 28000	M1	oe		
	300 × 100 or 30000	M1	oe		
	28000 and 30000 and No	A1			
	Alternative method 5				
	300 ÷ 4000 or 0.075	M1	oe		
	7 ÷ 100 or 0.07	M1	oe		
	0.075 and 0.07 and No	A1			
	Additional Guidance				
	M1 may be awarded for correct work with no answer or incorrect answer, even if this is seen amongst multiple attempts				
No may be indicated by selecting the box or a statement in the working lines					
No cannot be implied only by an inequality					
A correct value is sufficient to show working eg 280 and No (except in alt 3)		M2A1			
20 less in alt 1 implies M2					

Q	Answer	Mark	Comments
18	X is directly proportional to $\frac{1}{Y}$	B1	

Q	Answer	Mark	Comments		
Alternative method 1					
$1.7^2 - 1.5^2 = 0.64$ and $\sqrt{0.64} = 0.8$ or $2.89 - 2.25 = 0.64$ and $\sqrt{0.64} = 0.8$	B2	accept $0.8^2 = 0.64$ for $\sqrt{0.64} = 0.8$ accept $\sqrt{1.7^2 - 1.5^2} = 0.8$ for B2 accept $1.7^2 - 1.5^2 = 0.8^2$ for B2 B1 1.7^2 and 1.5^2 oe			
Alternative method 2					
$1.7^2 - 0.8^2 = 2.25$ and $\sqrt{2.25} = 1.5$ or $2.89 - 0.64 = 2.25$ and $\sqrt{2.25} = 1.5$	B2	accept $1.5^2 = 2.25$ for $\sqrt{2.25} = 1.5$ accept $\sqrt{1.7^2 - 0.8^2} = 1.5$ for B2 accept $1.7^2 - 0.8^2 = 1.5^2$ for B2 B1 1.7^2 and 0.8^2 oe			
Alternative method 3					
$0.8^2 + 1.5^2 = 2.89$ and $\sqrt{2.89} = 1.7$ or $0.64 + 2.25 = 2.89$ and $\sqrt{2.89} = 1.7$	B2	accept $1.7^2 = 2.89$ for $\sqrt{2.89} = 1.7$ accept $\sqrt{0.8^2 + 1.5^2} = 1.7$ for B2 accept $0.8^2 + 1.5^2 = 1.7^2$ for B2 B1 0.8^2 and 1.5^2 oe			
Additional Guidance					
B1 may be awarded for correct work with no answer or incorrect answer, even if this is seen amongst multiple attempts					
$1.7^2 - 1.5^2 = 0.64 \quad x^2 = 0.64 \quad x = 0.8$			B2		
Max B1 if any incorrect statement seen eg $1.7^2 - 1.5^2 = \sqrt{0.64} = 0.8$			B1		
Accept 1.7×1.7 for 1.7^2 etc					
Condone eg 1.5cm^2 and 1.7cm^2 for 1.5^2 and 1.7^2 for B1 but must be recovered for B2					
$0.64 \div 0.8 = 0.8$ is equivalent to $\sqrt{0.64} = 0.8$					

Q	Answer	Mark	Comments
20(a)	125×0.32 or 40 or 80×0.35 or 28	M1	oe
	12	A1	
	Additional Guidance		
M1 may be awarded for correct work with no answer or incorrect answer, even if this is seen amongst multiple attempts			
$80 \times 0.5 = 40$			M0

Q	Answer	Mark	Comments
20(b)	No and valid reason involving the number of trials	B1	eg reasons she didn't do the most she did fewer spins Beth did more they should use all 205 spins
	Additional Guidance		
	Ignore irrelevant or incorrect statements alongside a correct statement as long as not contradictory		
	eg1 No and Beth did most but she could have done more		B1
	eg2 No and Beth has more number of spins so there is a higher probability of landing on heads		B1
	eg3 No and Beth did most spins but Lynn did more		B0
	Allow 'she' to refer to Lynn unless clearly referring to Beth		
	eg No and Because she tried 125 times however Lynn tried only 80 times		B1
	No and She did not do as many spins so her answer is less accurate than Beth's		B1
	No and Beth spun the wheel more times. Therefore her probability would be lower		B1
No and Beth spun more times so her final outcome will be higher			B1
No and Beth did 125 spins and Lynn did 80 spins			B0
No and Beth did 125 spins so she has more chance of being accurate			B0

Q	Answer	Mark	Comments
21	digits $537 \div$ digits 895 or answer with only digit 6	M1	eg $537 \div 895$ or $537 \div 895000$ or $537 \div 0.895$ or 0.006 or 6000
	0.6 or $\frac{3}{5}$	A1	oe value eg $\frac{537}{895}$
Additional Guidance			
Ignore simplification or conversion attempt after correct answer seen			
Condone eg $537 \div 895000^3$ for M1 but must be recovered for A1			

Q	Answer	Mark	Comments
22	Alternative method 1 – using sin 40		
	sin chosen or used	M1	
	21 × sin 40	M1dep	accept $21 \times [0.64, 0.643]$
	[13.49, 13.5]	A1	
	Alternative method 2 – using cos 50		
	cos (90 – 40)	M1	
	21 × cos (90 – 40)	M1dep	oe accept $21 \times [0.64, 0.643]$
	[13.49, 13.5]	A1	
	Alternative method 3 – finds base then uses Pythagoras		
	$21^2 - (21 \sin (90 - 40))^2$	M1	oe complete method except square root
	$\sqrt{21^2 - (21 \sin(90 - 40))^2}$	M1dep	oe
	or $\sqrt{[182.2, 182.22]}$		
	[13.49, 13.5]	A1	
	Additional Guidance		
	Check diagram for working		
	Allow correct use of sine rule to indicate sin		
	Ignore rounding or truncating after the correct answer is seen eg answer 14 after 13.5 seen		M1M1A1
	$\sin 40 \times 21$		M2
	sin may be indicated by eg circling S in SOH CAH TOA		
	Do not accept answers from full sized or scale drawing		
	sin 50 used (unless using Alt 3)		M0

Q	Answer	Mark	Comments
	$8.5 \text{ m} \leq \text{length} < 9.5 \text{ m}$	B2	oe B1 8.5 or 9.5 in correct position SC1 $9.5 \text{ m} \leq \text{length} < 8.5 \text{ m}$
Additional Guidance			
Accept 9.49 for 9.5			
Accept eg 8.50 for 8.5			

Q	Answer	Mark	Comments
	$1 + 0.2 \text{ or } 1.2$ or $100(\%) + 20(\%) \text{ or } 120(\%)$	M1	oe eg $x + 0.2x$ implied by eg $20\% = 64000$ or $10\% = 32000$
Additional Guidance			
M1 may be awarded for correct work with no answer or incorrect answer, even if this is seen amongst multiple attempts			
460800 is M0 unless 1.2 oe seen			
Correct answer followed by further work			M2A0

Q	Answer	Mark	Comments
25	x^3y or yx^3	B1	
	$5xy^3$ or $5y^3x$	B1	
	$5x^2y^2$ or $5y^2x^2$	B1	
Additional Guidance			
Mark the answer lines unless blank			
Do not allow transcription errors			

Q	Answer	Mark	Comments
26	$4x + 1 = 2x + 17$	M1	oe equation in terms of x any letter
	$4x - 2x = 17 - 1$ or $1 - 17 = 2x - 4x$ or $(x =) 8$	M1dep	oe collection of terms
	Correctly substitutes their 8 into a correct expression for the length or width of the rectangle	M1	their 8 > 0 and their 8 ≠ 1
	Correct method for both the length and the width of the rectangle using their 8	M1dep	their 8 > 0 and their 8 ≠ 1 dep on 3rd M
	3267	A1	SC1 $12x + 3$ or $6x + 51$
Additional Guidance			
The first M1 or SC1 may be awarded for correct work with no answer or incorrect answer, even if this is seen amongst multiple attempts			
Trial and improvement to find $(x =) 8$ is M2			
Using an incorrect value of x for 3rd and 4th marks eg when $x = 10$ $4 \times 10 + 1 = 41$ and $41 \times 3 = 123$ or $12 \times 10 + 3 = 123$ and $123 \div 3 = 41$ or $2 \times 10 + 17 = 37$ and $6 \times 10 + 51 = 111$			
M0M0M1M1dep			
M0M0M1M1dep			
M0M0M1M1dep			